

EPS SSR-1

POWER BUS LOSS: RPDA N1RS1 (Includes RPCMs N1RS1 A, B, and C)

ACTION		EQUIP/FUNCTION LOST	CREW INDICATIONS	NOTES
1	PCS Node 1: C&DH: MDM_N1-2 Primary NCS √State - Primary, If no telemetry √MCC-H	N1-1 MDM MDM N1-2 Srv Htr	Caution Messages: MDM N1-2 Detected RT Fail MDM N1-1 - PMA 1	① Both MDMs are nominally active. In the event of loss of the primary MDM, the alternate MDM will automatically transition to primary.
	FGB: EPS FGB: EPS If RACU 6 - On, Perform RACU 6 Deactivate procedure (SODF: EPS).	RPCM N1RS1 A (Type V) RPCM N1RS1B (Type V) RPCM N1RS1C (Type V) Control of RPCM N14B A Control of RPCM N14B B Control of RPCM N14B C	Advisory Messages: RPCM N1RS1 A Loss Of Comm - NOD1 RPCM N1RS1 B Loss Of Comm - NOD1 RPCM N1RS1 C Loss Of Comm - NOD1 MDM N1-2 Loss of Sync To MDM N1-1	
3		2 Node 1 Shell Htrs String A PMA1 Shell Htrs String A	Telemetry: PCS Node 1: EPS NODE1: EPS	② String B of the Node 1 and PMA 1 Shell Heaters are nominally primary.
	Node 1: EPS: RPCM: N1RS2 RPCM NIRS2 A sel RPCM Detail sel RPC [X] [X] = 10 11 cmd Open Execute Repeat	3 CBM N1 Stbd Sec 1 (Early Comm Port Ant Pwr)	RPCM N1RS1 A - not Active RPCM N1RS1 B - not Active RPCM N1RS1 C - not Active FGB: EPS FGB: EPS	③ Since the Early Comm antennas are lost, the entire Early Comm system is lost. The internal Early Comm equipment is powered off, except for the Transceiver. The Transceiver remains powered to provide survival heater power.
		4 CBM N1 Stbd Sec 2 (Early Comm Port Ant Htr) CBM N1 Stbd Sec 3 (Early Comm Stbd Ant Pwr) CBM N1 Stbd Sec 4 (Early Comm Stbd Ant Htr)		
		4 CBM N1 Port Sec (1 --- 4)		
		N1-1 SDO 1A Card: MDM N1-2 Opr Htr Node 1 3-Way SDS Vlv-1 Solenoid Cmd Node 1 3-Way SDS Vlv-1 Latch Cmd Node 1 3-Way SDS Vlv-2 Solenoid Cmd N1-1 SDO 1B Card	5 RACU Details RACU 6 Converter - Off RACU 6 Output Current < 1 AMP RACU 6 Output Voltage ~0 Volts	④ Normally the CBMs are powered off. ⑤ The RACU indications will only be valid, if the bus failure is due to a RACU failure.